



CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com



To,

Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP.

22nd December 2017

Dear Sir,

Sub: Improvements to roads and drains at suryavamshi layout and surrounding areas in ward No. 02 of Yelahanka Sub Division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,


(KHUSHBOO L.)
Quality Manager







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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Suryavamshi layout and surrounding areas in ward No. 02 of Yelahanka Sub Division.
Name of Agency	M/s. K.R.I.D.L.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm ²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm ²)	Avg Compressive Strength (N/mm ²)
1	CC- work	14/12/2017	21/12/2017	7	8.21	340	15.11	15.02
2					8.23	336	14.93	
3					8.25	338	15.02	

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

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Name of Work	Improvements to roads and drains at Suryavamshi layout and surrounding areas in ward No. 02 of Yelahanka Sub Division.
Name of Agency	M/s. K.R.I.D.L.
Grade of Concrete	M-15
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm ²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm ²)	Avg Compressive Strength (N/mm ²)
1	CC- work (Precast Slab)	15/12/2017	22/12/2017	7	8.16	242	10.76	10.90
2					8.17	254	11.29	
3					8.19	240	10.67	

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Suryavamshi layout and surrounding areas in ward No. 02 of Yelahanka Sub Division.
Name of the Agency	M/s. K.R.I.D.L.
Date of Testing	13/12/2017
Specific Gravity	2.69
Water Absorption	0.33%
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2016), IS : 2386 (Part III)-1963 (Reaffirmed 2016)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS 383 : 2016	Remarks
80	100	100	Satisfies the requirement
40	96.4	90-100	
20	52.6	30-70	
10	28.2	10-35	
4.75	3.6	0-5	

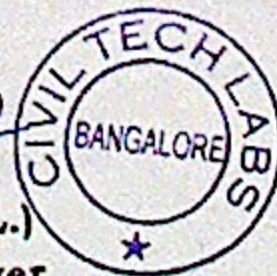
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TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Suryavamshi layout and surrounding areas in ward No. 02 of Yelahanka Sub Division.
Name of the Agency	M/s. K.R.I.D.L.
Date of Testing	13/12/2017
Specific Gravity	2.59
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2016), IS : 2386 (Part III)-1963 (Reaffirmed 2016)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS 383 : 2016				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	100	100	100	100	100	II	Satisfies the requirement
	4.75	97.4	90-100	90-100	90-100	95-100		
	2.36	86.9	60-95	75-100	85-100	95-100		
	1.18	67.2	30-70	55-90	75-100	90-100		
	0.6	49.6	15-34	35-59	60-79	80-100		
	0.3	26.4	5-20	8-30	12-40	15-50		
	0.15	8.1	0-10	0-10	0-10	0-15		

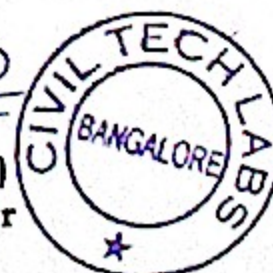
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TEST REPORT TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Suryavamshi layout and surrounding areas in ward No. 02 of Yelahanka Sub Division.
Name of the Agency	M/s. K.R.I.D.L.
Date of Testing	13/12/2017

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	49	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	487	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

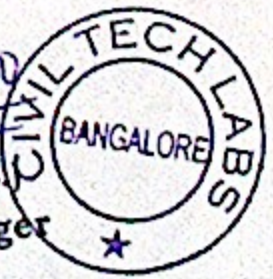
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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 12 mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Improvements to roads and drains at Suryavamshi layout and surrounding areas in ward No. 02 of Yelahanka Sub Division.
Name of the Agency	M/s. K.R.I.D.L.
Date of Testing	13/12/2017
Grade of Steel	Fe - 500

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & Rebend Test	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.1	12	Satisfactory
5	Yield Stress (N/Sq.mm)	515	500	Satisfactory
6	U T S (N/Sq.mm)	572	545	Satisfactory

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